

**IN THE CLAIMS:**

1-13. (Canceled)

14. (Currently Amended): A method for performing a secure multicast broadcast at a router for keeping unauthorized entities from gaining access to the secure multicast broadcast, the method comprising:

    sending a received request to join a multicast broadcast at a user system to an Internet Protocol (IP) multicast address;

    determining if the multicast address of the request to join is associated with a multicast broadcast IP address based on one of a table or map;

    receiving a multicast transmission from a first computer system associated with the multicast address,

    if the request to join is associated with a multicast broadcast address, then

        removing the multicast broadcast IP address;

        attaching one of an associated or a local IP multicast address to the multicast broadcast; and

        sending the multicast broadcast to the user system requesting to join, thereby keeping unauthorized entities from gaining access to the secure multicast broadcast because knowledge of the attached associated or a local IP multicast address is only previously know to the first computer system and the user system.

15. (Currently Amended): A router for sending a secure multicast broadcast so that unauthorized entities cannot gain access to the secure multicast broadcast, the router comprising:

    a computer device configured to:

25315

CUSTOMER NUMBER

- 2 -

WRLD-1-1013ROA6

BLACK LOWE & GRAHAM <sup>PLLC</sup>



701 Fifth Avenue, Suite 4800  
Seattle, Washington 98104  
206.381.3300 • F: 206.381.3301

send a received request to join a multicast broadcast at a user system to an Internet Protocol (IP) multicast address;  
determine if the multicast address of the request to join is associated with a multicast broadcast IP address;  
receive a multicast transmission from a first computer system associated with the multicast address,  
if the request to join is associated with a multicast broadcast address, then  
remove the multicast broadcast IP address;  
attach one of an associated or a local IP multicast address to the multicast broadcast; and  
send the multicast broadcast to the user system requesting to join,  
thereby keeping unauthorized entities from gaining access to the secure multicast broadcast because knowledge of the attached associated or a local IP multicast address is only previously know to the first computer system and the user system.

16. (Previously Presented): The method of Claim 14, wherein the received multicast transmission is encrypted, the method comprising:

decrypting the sent multicast broadcast before attaching one of the associated or the local IP multicast address to the multicast broadcast.

17. (Currently Amended): The router of Claim ~~[[14]]~~ 15, wherein the received multicast transmission is encrypted, the computer device decrypts the sent multicast broadcast before attaching one of the associated or the local IP multicast address to the multicast broadcast.

18. (New): A router for sending a secure multicast broadcast so that unauthorized entities cannot gain access to the secure multicast broadcast, the router comprising:

a computer device configured to:

send a received request to join a multicast broadcast at a user system to an

Internet Protocol (IP) multicast address;

determine if the multicast address of the request to join is associated with a

multicast broadcast IP address;

receive a multicast transmission from a first computer system associated with

the multicast address,

if the request to join is associated with a multicast broadcast address, then

remove the multicast broadcast IP address;

attach one of an associated or a local IP multicast address to the

multicast broadcast; and

send the multicast broadcast to the user system requesting to join,

thereby keeping unauthorized entities from gaining access to the

secure multicast broadcast because knowledge of the attached

associated or a local IP multicast address is only previously know

to the router.

